

NORMAL NORMAL NORMAL

27181 - Diesel Engine

Unit Make	: PETERBILT									
Unit Model	: 320	Serial No		: { n/a	1}	Da	ate Rec'd	: De	c 22, 2011	
Comp Make	: CUMMINS	Cust. Ref I	No.	: {n/a	-	Sa	mple Dat	te : De	c 13, 2011	
Comp Model	: ISX 350	Stub No.		-	M2208966	Di	agnostic	ian : Do	on Baldrid	ge
RECOMMENDATION					Sample Date	01/11/11	04/20/11	08/05/11	Current	UOM
Resample at the next service interval to monitor.					Time on Unit	27245	30356		41584	mls
Resample at th	e next service interval	to monitor.			Time on Oil	20453	23564	28298	34792	mls
					Time on Fltr	2322	3111	4734	6494	mls
					Oil Maint.	not chg	not chg	not chg	not chg	
					Filter Maint.	changed	changed	changed	changed	
CONTAM	INATION				Sample Date	01/11/11	04/20/11	08/05/11	Current	Abn
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.					Silicon	18	9.5	8.2	8.5	15
					Fuel (%)	<2.0	<2.0	<2.0	<2.0	
					Glycol					0.02
					Water (%)	< 0.1	< 0.1	< 0.1	< 0.1	0.1
					Soot (%)	1.7	1.6	1.5	1.5	
					>4µm(c)	1679		282	333	
					>6µm(c)	914		153	181	
					>14µm(c)	155		26	30	
					>21µm(c)	52		8	10	
					>38µm(c)	8		1	1	
					>70µm(c)	0		0	0	
					ISO 4406(c)	17/14		14/12	15/12	
					(3)00++ 001	1,71				
OIL CONI	DITION				Sample Date	01/11/11	04/20/11	08/05/11	Current	Base
					. , ,	01/11/11	23	24	Current 9.3	Base
	DITION TS of CHEVRON DE	LO 400 LE 15W40			Sample Date Potassium Boron	01/11/11 15 55	23 51	24 48	9.3 60	Base
Oil Type: 42 Q					Sample Date Potassium Boron Barium	01/11/11 15 55 0.0	23 51 0.7	24 48 0.5	9.3 60 0.6	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium	01/11/11 15 55 0.0 1937	23 51 0.7 2219	24 48 0.5 2076	9.3 60 0.6 2492	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium	01/11/11 15 55 0.0 1937 295	23 51 0.7 2219 280	24 48 0.5 2076 233	9.3 60 0.6 2492 235	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum	01/11/11 15 55 0.0 1937 295 64	23 51 0.7 2219 280 65	24 48 0.5 2076 233 55	9.3 60 0.6 2492 235 55	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium	01/11/11 15 55 0.0 1937 295 64 5.6	23 51 0.7 2219 280 65 4.8	24 48 0.5 2076 233 55 4.7	9.3 60 0.6 2492 235 55 55 5.4	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus	01/11/11 15 55 0.0 1937 295 64 5.6 1084	23 51 0.7 2219 280 65 4.8 1175	24 48 0.5 2076 233 55 4.7 1086	9.3 60 0.6 2492 235 55 55 5.4 1208	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917	23 51 0.7 2219 280 65 4.8 1175 3325	24 48 0.5 2076 233 55 4.7 1086 2960	9.3 60 0.6 2492 235 55 55 5.4 1208 3264	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292	23 51 0.7 2219 280 65 4.8 1175 3325 1352	24 48 0.5 2076 233 55 4.7 1086 2960 1286	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9	Base
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384 14.9 6.52	
Oil Type: 42 Q	TS of CHEVRON DE				Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384 14.9 6.52	
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9 6.52 Current 	
Oil Type: 42 Q The condition	TS of CHEVRON DE	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 88	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9 6.52 Current 97	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 0.4	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 888 0.0	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3 1.9	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 0.4 1.9	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 888 0.0 1.7	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8 1.9	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3 1.9 0.4	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 0.4	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 88 0.00 1.7 0.3	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8 1.9 0.3	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3 1.9 0.4 35	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 04/20/11 94 0.4 1.9 0.4 34	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 888 0.0 1.7 0.3 34	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8 1.9 0.3 34	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper Aluminum	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3 1.9 0.4 35 6.1	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 0.4 1.9 0.4 34 7.9	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 888 0.0 1.7 0.3 34 7.6	9.3 60 0.6 2492 235 55 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8 1.9 0.3 34 7.9	Abn
Oil Type: 42 Q The condition	TS of CHEVRON DE.	ther service.			Sample Date Potassium Boron Barium Calcium Magnesium Molybdenum Sodium Phosphorus Sulfur Zinc Visc@100°C TBN Sample Date PQ Iron Nickel Chromium Titanium Copper	01/11/11 15 55 0.0 1937 295 64 5.6 1084 2917 1292 14.73 5.21 01/11/11 93 1.3 1.9 0.4 35	23 51 0.7 2219 280 65 4.8 1175 3325 1352 14.76 6.19 04/20/11 94 04/20/11 94 0.4 1.9 0.4 34	24 48 0.5 2076 233 55 4.7 1086 2960 1286 14.49 6.70 08/05/11 888 0.0 1.7 0.3 34 7.6	9.3 60 0.6 2492 235 55 5.4 1208 3264 1384 14.9 6.52 Current 97 0.8 1.9 0.3 34 7.9 1.7	Abn

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