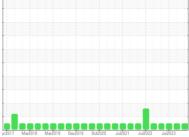


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





Sample Number Client Info PCA0108367 PCA0101131 PCA0088744 Sample Date Client Info 17 Dec 2023 23 Sep 2023 09 Jul 2023 Machine Age mis Client Info 40000 2000 40000 Oil Age mis Client Info Changed NORMAL NORMAL NORMAL Sample Status Imit base current Initotyse History History Fuel WC Method >6.0 <1.0	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 0 660776 0 Oil Age mis Client Info 40000 20000 40000 Oil Age Client Info Changed N/A Sample Status Imilibase current NoRMAL NORMAL CONTAMINATION method 56.0 <1.0	Sample Number		Client Info		PCA0106367	PCA0101131	PCA0088744
Oil Age mis Client Info 40000 20000 40000 Oil Changed Client Info Changed N/A Sample Status Imit/Dase current history1 Fuel WC Method >6.0 <1.0	Sample Date		Client Info		17 Dec 2023	23 Sep 2023	09 Jul 2023
Oil Changed Client Info Changed NORMAL NA Sample Status Image of the status Normal Norma	Machine Age	mls	Client Info		0	660776	0
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imitibase current history1 history2 Fuel WC Method >6.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method imitibase current history1 history2 Iron ppm ASTM D5185m >20 1 1 <1 Nickel ppm ASTM D5185m >22 1 1 <1 Muminum ppm ASTM D5185m >22 <1 <1 <1 Auminum ppm ASTM D5185m >20 0 0 0 Lead ppm ASTM D5185m >15 1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Van	Oil Age	mls	Client Info		40000	20000	40000
CONTAMINATION method imit/base current history1 history2 Fuel WC Method >6.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method S0.2 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >20 1 1 <1 Nickel ppm ASTM D5185m >2 1 1 1 <1 Nickel ppm ASTM D5185m >2 1 1 1 1 1 Nickel ppm ASTM D5185m >2 <1 <1 0 1	Oil Changed		Client Info		Changed	Changed	N/A
Fuel WC Method >6.0 <1.0	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imil/base current history1 history2 Iron ppm ASTM D5185m >100 53 40 28 Chromium ppm ASTM D5185m >20 1 1 -1 Nickel ppm ASTM D5185m >2 1 1 -1 Silver pom ASTM D5185m >2 -1 -1 0 Aluminum ppm ASTM D5185m >2 -7 5 6 Lead ppm ASTM D5185m >25 7 5 6 Lead ppm ASTM D5185m >30.0 4 3 3 Tin ppm ASTM D5185m >40 2 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Głycoł WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 1 1 <1	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 53 40 28 Chromium ppm ASTM D5185m >20 1 1 1 Nickel ppm ASTM D5185m >2 1 1 1 Titanium ppm ASTM D5185m >2 2 2 2 Silver ppm ASTM D5185m >2 <1 2 2 Aluminum ppm ASTM D5185m >2 <1 2 <1 2 Copper ppm ASTM D5185m >2 <1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 2 <1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM 05185m >100 53 40 28 Chromium ppm ASTM 05185m >20 1 1 <1 Nickel ppm ASTM 05185m >2 1 1 1 Titanium ppm ASTM 05185m >2 <1 1 0 Aluminum ppm ASTM 05185m >2 <1 0 0 0 Lead ppm ASTM 05185m >2 7 5 6 0 0 0 Copper ppm ASTM 05185m >40 2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 1 11 S1 S1<	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >20 1 1 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 1 1 1 Titanium ppm ASTM D5185m >2 1 1 1 Titanium ppm ASTM D5185m >2 1 1 0 Aluminum ppm ASTM D5185m >25 7 5 6 Lead ppm ASTM D5185m >40 2 <1	Iron	ppm	ASTM D5185m	>100	53	40	28
Titanium ppm ASTM D5185m 2 <1 <1 0 Aluminum ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>20	1	1	<1
Silver ppm ASTM D5185m >2 <1 <1 0 Aluminum ppm ASTM D5185m >25 7 5 6 Lead ppm ASTM D5185m >40 2 <1	Nickel	ppm	ASTM D5185m	>2	1	1	1
Aluminum ppm ASTM D5185m >25 7 5 6 Lead ppm ASTM D5185m >40 2 <1	Titanium	ppm	ASTM D5185m		2	2	2
Lead ppm ASTM D5185m >40 2 <1 2 Copper ppm ASTM D5185m >330 4 3 3 Tin ppm ASTM D5185m >15 1 <1 <1 <1 Vanadium ppm ASTM D5185m >15 1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limi/base current history1 history2 Boron ppm ASTM D5185m 0 5 56 59 Magnaese ppm ASTM D5185m 0 <1 <1 <1< Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 950 1064 1032 1001 Zinc ppm	Silver	ppm	ASTM D5185m	>2	<1	<1	0
Copper ppm ASTM D5185m >330 4 3 3 Tin ppm ASTM D5185m >15 1 <1	Aluminum	ppm	ASTM D5185m	>25	7	5	6
Tin ppm ASTM D5185m >15 1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 2 <1	Lead	ppm	ASTM D5185m	>40	2	<1	2
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 2 <1 <1 Barium ppm ASTM D5185m 0 0 0 0 2 Molybdenum ppm ASTM D5185m 0 55 56 59 Magnesium ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 950 1064 1032 1001 Zinc ppm ASTM D5185m 950 2426 2556 2827 Sulfur ppm ASTM D5185m 225 7 6 6 Socium ppm ASTM D5185m 225 7 6	Copper	ppm	ASTM D5185m	>330	4	3	3
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 2 <1 <1 Barium ppm ASTM D5185m 0 0 0 0 2 Boron ppm ASTM D5185m 0 0 0 0 2 Barium ppm ASTM D5185m 0 55 56 59 Magnesium ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 950 896 919 1150 Phosphorus ppm ASTM D5185m 1050 1078 1099 1150 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 Soliton ppm ASTM D5185m 20 <td>Tin</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>15</td> <th>1</th> <td><1</td> <td><1</td>	Tin	ppm	ASTM D5185m	>15	1	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 2 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 2 2 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 50 55 56 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 1050 1078 1099 1150 Phosphorus ppm ASTM D5185m 995 1064 1032 1001 Zinc ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANT method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base			and the second				
Molybdenum ppm ASTM D5185m 50 55 56 59 Manganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Maganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 1050 1078 1099 1150 Phosphorus ppm ASTM D5185m 995 1064 1032 1001 Zinc ppm ASTM D5185m 995 1064 1032 1225 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/.1mm *ASTM D7624		ppm					
Magnesium ppm ASTM D5185m 950 896 919 867 Calcium ppm ASTM D5185m 1050 1078 1099 1150 Phosphorus ppm ASTM D5185m 995 1064 1032 1001 Zinc ppm ASTM D5185m 995 1064 1032 1225 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/.m *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.m *ASTM D7415	Boron		ASTM D5185m	2	2	<1	<1
Calcium ppm ASTM D5185m 1050 1078 1099 1150 Phosphorus ppm ASTM D5185m 995 1064 1032 1001 Zinc ppm ASTM D5185m 995 1064 1032 1225 Sulfur ppm ASTM D5185m 1180 1278 1262 1225 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/.mm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.lmm *ASTM D	Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0	2 0	<1 0	<1 2
Phosphorus ppm ASTM D5185m 995 1064 1032 1001 Zinc ppm ASTM D5185m 1180 1278 1262 1225 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/.mm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.imm *ASTM D7415	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	2 0 55	<1 0 56	<1 2 59
Zinc ppm ASTM D5185m 1180 1278 1262 1225 Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.tmm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	2 0 55 <1	<1 0 56 <1	<1 2 59 <1
Sulfur ppm ASTM D5185m 2600 2426 2556 2827 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m >20 24 18 16 Potassium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	2 0 55 <1 896	<1 0 56 <1 919	<1 2 59 <1 867
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25766SodiumppmASTM D5185m>20241816PotassiumppmASTM D5185m>20202INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.80.70.6NitrationAbs/cm*ASTM D7624>2012.611.410.3SulfationAbs/lim*ASTM D7415>3026.424.523.4FLUID DEGRADATION methodlimit/basecurrenthistory1history2OxidationAbs/.imm*ASTM D7414>2525.222.419.8	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	2 0 55 <1 896 1078	<1 0 56 <1 919 1099	<1 2 59 <1 867 1150
Silicon ppm ASTM D5185m >25 7 6 6 Sodium ppm ASTM D5185m 24 18 16 Potassium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.tm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	2 0 55 <1 896 1078 1064	<1 0 56 <1 919 1099 1032	<1 2 59 <1 867 1150 1001
Sodium ppm ASTM D5185m 24 18 16 Potassium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	2 0 55 <1 896 1078 1064 1278	<1 0 56 <1 919 1099 1032 1262	<1 2 59 <1 867 1150 1001 1225
Potassium ppm ASTM D5185m >20 2 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	2 0 55 <1 896 1078 1064 1278 2426	<1 0 56 <1 919 1099 1032 1262 2556	<1 2 59 <1 867 1150 1001 1225 2827
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 0 50 950 1050 995 1180 2600	2 0 555 <1 896 1078 1064 1278 2426 2426 current 7	<1 0 56 <1 919 1099 1032 1262 2556 history1 6	<1 2 59 <1 867 1150 1001 1225 2827 history2
Soot % % *ASTM D7844 >3 0.8 0.7 0.6 Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	2 0 55 <1 896 1078 1064 1278 2426 current 7 24	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16
Nitration Abs/cm *ASTM D7624 >20 12.6 11.4 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	2 0 55 <1 896 1078 1064 1278 2426 current 7 24	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16
Sulfation Abs/.1mm *ASTM D7415 >30 26.4 24.5 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	2 0 55 <1 896 1078 1064 1278 2426 current 7 24 24 2	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 16 2
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 -20 imit/base	2 0 55 <1 896 1078 1064 1278 2426 current 7 24 2 2 2 current	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0 Vistory1	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 2 history2
Oxidation Abs/.1mm *ASTM D7414 >25 25.2 22.4 19.8	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20 Imit/base >3	2 0 55 <1 896 1078 1064 1278 2426 <u>current</u> 7 24 2 2 <u>current</u> 0.8	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0 history1 0.7	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 2 history2 0.6
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm TS TS ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <i>imit/base</i> >25 >20 <i>imit/base</i> >3 >20	2 0 55 <1 896 1078 1064 1278 2426 <i>current</i> 7 24 2 2 <i>current</i> 0.8 12.6	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0 history1 0.7 11.4	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 2 history2 0.6 10.3
Base Number (BN) mg KOH/g ASTM D2896 3.1 2.4 5.7	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 20 imit/base >3 >20 33 >30	2 0 55 <1 896 1078 1064 1278 2426 <u>current</u> 7 24 2 2 <u>current</u> 0.8 12.6 26.4	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0 history1 0.7 11.4 24.5	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 2 history2 0.6 10.3 23.4
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	2 0 50 0 950 1050 995 1180 2600 imit/base >25 >20 imit/base >3 >20 >30	2 0 55 <1 896 1078 1064 1278 2426 <i>current</i> 7 24 2 2 <i>current</i> 0.8 12.6 26.4 <i>current</i>	<1 0 56 <1 919 1099 1032 1262 2556 history1 6 18 0 history1 0.7 11.4 24.5 history1	<1 2 59 <1 867 1150 1001 1225 2827 history2 6 16 2 history2 0.6 10.3 23.4 history2

VOLVO 26507

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

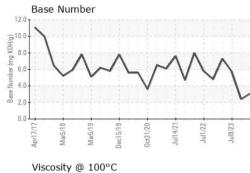
There is no indication of any contamination in the oil.

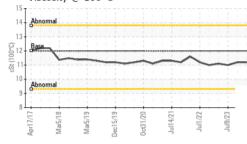
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

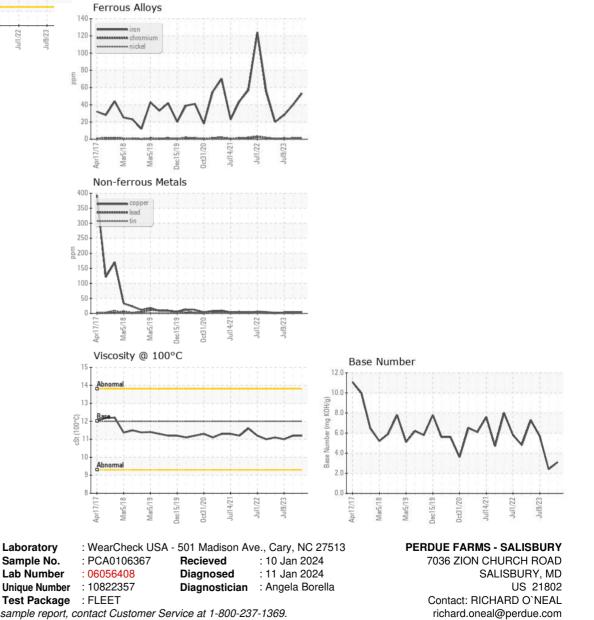


OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.2	11.0
GRAPHS						





* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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