

# **OIL ANALYSIS REPORT**

# CONSTRUCTORS, INC

01-0022

Component

**Front Diesel Engine** 

MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

# Sample Rating Trend



# Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

# **Fluid Condition**

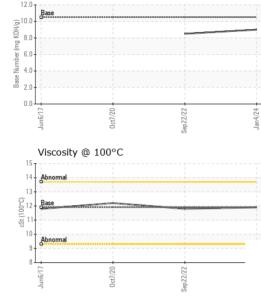
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         16597         16344         15998           Oil Age         hrs         Client Info         253         346         271           Oil Changed         Changed         Changed         Changed         Changed           Sample Status         Immitted         NoRMAL         NORMAL         NORMAL           CONTAMINATION         method         Immitted         NoRMAL         NORMAL           VORMER         WC Method         >3.0         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG           Iron         ppm         ASTM 05185m         >90         6         8         6           Chromium         ppm         ASTM 05185m         >20         <1         <1         0           Nickel         ppm         ASTM 05185m         >20         0         0         0           Silver         ppm         ASTM 05185m         >20         1         1         2           Lead         ppm         ASTM 05185m         >20         1	Sample Number		Client Info		SBP0005704	SBP0001280	SBP83178004
Machine Age         hrs         Client Info         16597         16344         15998           Oil Age         hrs         Client Info         253         346         271           Oil Changed         Changes         Changed         Changes         Changed			Client Info		04 Jan 2024	22 Sep 2022	07 Oct 2020
Oil Changed Sample Status         Client Info         Changed NORMAL         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Changed NoRMAD         Change NoE         Change NoE<	•	hrs	Client Info		16597	16344	15998
Sample Status	Oil Age	hrs	Client Info		253	346	271
CONTAMINATION         method         limit/base         current         history1         history2           Fuel         WC Method         3.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0         <1.0	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         Imili/base         current         history1         history2           Iron         ppm         ASTM D5185m         >90         6         8         6           Chromium         ppm         ASTM D5185m         >20         <1         <1         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Nickel         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Lead         ppm         ASTM D5185m         >30         2         <1         0         0           Copper         ppm         ASTM D5185m         >30         0         0         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0         0         0         0         0         0         0         0	CONTAMINATION	١	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS         method         limit/base         current         history2           Iron         ppm         ASTM D5185m         >90         6         8         6           Chromium         ppm         ASTM D5185m         >20         <1         <1         0           Nickel         ppm         ASTM D5185m         >20         0         0         0           Titanium         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >40         1         <1         1         2           Lead         ppm         ASTM D5185m         >40         1         <1         0         0           Copper         ppm         ASTM D5185m         >330         2         <1         0         0           Vanadium         ppm         ASTM D5185m         >0         0         0         0           Cadmium         ppm         ASTM D5185m         36	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	0.0
Chromium         ppm         ASTM D5185m         >20         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >2         0         0         0           Titanium         ppm         ASTM D5185m         >2         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >20         1         1         2           Lead         ppm         ASTM D5185m         >40         1         <1         1           Copper         ppm         ASTM D5185m         >40         1         <1         0           Tin         ppm         ASTM D5185m         0         0         0         0           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         36         48         48           Barium         ppm         ASTM D5185m         0         0         0           Marganese </th <th>Iron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;90</th> <th>6</th> <th>8</th> <th>6</th>	Iron	ppm	ASTM D5185m	>90	6	8	6
Titanium	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Silver	Nickel	ppm	ASTM D5185m	>2	0	0	0
Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >20         1         1         2           Lead         ppm         ASTM D5185m         >40         1         <1	Titanium		ASTM D5185m	>2	0	0	0
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >330         2         <1	Aluminum	ppm	ASTM D5185m	>20	1	1	2
Tin         ppm         ASTM D5185m         >15         <1	Lead	ppm	ASTM D5185m	>40	1	<1	1
Tin         ppm         ASTM D5185m         >15         <1	Copper	ppm	ASTM D5185m	>330	2	<1	0
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         36         48         48           Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         49         35         40           Manganese         ppm         ASTM D5185m         763         537         610           Calcium         ppm         ASTM D5185m         763         537         610           Calcium         ppm         ASTM D5185m         1546         1546         1500           Phosphorus         ppm         ASTM D5185m         982         752         801           Zinc         ppm         ASTM D5185m         3108         3142            Sulfur         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         >20         0		ppm	ASTM D5185m	>15	<1	0	0
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         0         0         0           Molybdenum         ppm         ASTM D5185m         49         35         40           Manganese         ppm         ASTM D5185m         <1         <1         0           Magnesium         ppm         ASTM D5185m         763         537         610           Calcium         ppm         ASTM D5185m         1546         1546         1500           Phosphorus         ppm         ASTM D5185m         982         752         801           Zinc         ppm         ASTM D5185m         1203         897         870           Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m          0           INFRA-RED         method         limit/base         current         history1	ADDITUIES						
Molybdenum         ppm         ASTM D5185m         49         35         40           Manganese         ppm         ASTM D5185m         <1	ADDITIVES		method	limit/base	current	history1	history2
Manganese         ppm         ASTM D5185m         <1		ppm		limit/base			
Magnesium         ppm         ASTM D5185m         763         537         610           Calcium         ppm         ASTM D5185m         1546         1546         1500           Phosphorus         ppm         ASTM D5185m         982         752         801           Zinc         ppm         ASTM D5185m         1203         897         870           Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m         >20         0         2         0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration<	Boron		ASTM D5185m	limit/base	36	48	48
Calcium         ppm         ASTM D5185m         1546         1546         1500           Phosphorus         ppm         ASTM D5185m         982         752         801           Zinc         ppm         ASTM D5185m         1203         897         870           Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0         0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         "ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         "ASTM D7415         >30         20.2         22.2            FLUID DEGRADA	Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	36 0	48 0	48
Phosphorus         ppm         ASTM D5185m         982         752         801           Zinc         ppm         ASTM D5185m         1203         897         870           Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0         0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         "ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         "ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         "ASTM D7415         >30         20.2         22.2 <t< th=""><th>Boron Barium Molybdenum</th><th>ppm ppm</th><th>ASTM D5185m ASTM D5185m ASTM D5185m</th><th>limit/base</th><th>36 0 49</th><th>48 0 35</th><th>48 0 40</th></t<>	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	36 0 49	48 0 35	48 0 40
Zinc         ppm         ASTM D5185m         1203         897         870           Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0         0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         hi	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	36 0 49 <1	48 0 35 <1	48 0 40 0
Sulfur         ppm         ASTM D5185m         3108         3142            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0         0         2         0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	36 0 49 <1 763	48 0 35 <1 537	48 0 40 0 610
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	36 0 49 <1 763 1546	48 0 35 <1 537 1546	48 0 40 0 610 1500
Silicon         ppm         ASTM D5185m         >25         4         4         5           Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	36 0 49 <1 763 1546 982	48 0 35 <1 537 1546 752	48 0 40 0 610 1500 801
Sodium         ppm         ASTM D5185m         3         2         4           Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	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 ASTM D5185m	limit/base	36 0 49 <1 763 1546 982 1203	48 0 35 <1 537 1546 752 897	48 0 40 0 610 1500 801
Potassium         ppm         ASTM D5185m         >20         0         2         0           Chlorine         ppm         ASTM D5185m           0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	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 ASTM D5185m		36 0 49 <1 763 1546 982 1203 3108	48 0 35 <1 537 1546 752 897 3142	48 0 40 0 610 1500 801 870
Chlorine         ppm         ASTM D5185m           0           INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	36 0 49 <1 763 1546 982 1203 3108 current	48 0 35 <1 537 1546 752 897 3142 history1	48 0 40 0 610 1500 801 870 
INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >6         0.1         0.1         0.34           Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	36 0 49 <1 763 1546 982 1203 3108 current	48 0 35 <1 537 1546 752 897 3142 history1	48 0 40 0 610 1500 801 870  history2
Soot %         %         *ASTM D7844	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25	36 0 49 <1 763 1546 982 1203 3108 current 4	48 0 35 <1 537 1546 752 897 3142 history1 4	48 0 40 0 610 1500 801 870  history2 5 4
Nitration         Abs/cm         *ASTM D7624         >20         9.5         12.1            Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25	36 0 49 <1 763 1546 982 1203 3108 current 4 3	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2	48 0 40 0 610 1500 801 870  history2 5 4
Sulfation         Abs/.1mm         *ASTM D7415         >30         20.2         22.2            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2	48 0 40 0 610 1500 801 870  history2 5 4 0
FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     20.3     23.5     4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20 limit/base	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2  history1	48 0 40 0 610 1500 801 870  history2 5 4 0 0
Oxidation         Abs/.1mm         *ASTM D7414         >25         20.3         23.5         4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20 limit/base >6	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0 	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2  history1 0.1	48 0 40 0 610 1500 801 870 history2 5 4 0 0 history2 0.34
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m	limit/base >25 >20 limit/base >6 >20	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0  current 0.1 9.5	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2 history1 0.1 12.1	48 0 40 0 610 1500 801 870 history2 5 4 0 0 history2 0.34
Base Number (BN)         mg KOH/g         ASTM D2896         10.5         9.0         8.5	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	limit/base >25 >20 limit/base >6 >20 >30	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0  current 0.1 9.5 20.2	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2 history1 0.1 12.1 22.2	48 0 40 0 610 1500 801 870 history2 5 4 0 0 history2 0.34
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Chlorine INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D78185m  method  *ASTM D7844 *ASTM D7624 *ASTM D7415  method	limit/base >25 >20 limit/base >6 >20 >30 limit/base	36 0 49 <1 763 1546 982 1203 3108 current 4 3 0  current 0.1 9.5 20.2 current	48 0 35 <1 537 1546 752 897 3142 history1 4 2 2 history1 0.1 12.1 22.2 history1	48 0 40 0 610 1500 801 870 history2 5 4 0 0 history2 0.34 history2



Base Number

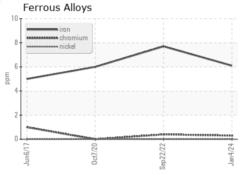
# **OIL ANALYSIS REPORT**

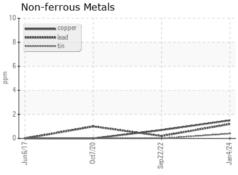


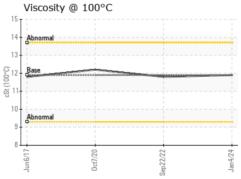
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
ELLUD DDODEDT						11.

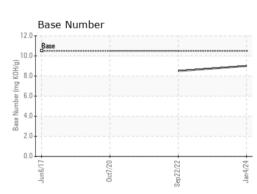
I LOID I NOI LINILO		memou			HISTOLAL	i ilistoryz
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	11.8	12.2

# **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10820667 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0005704 : 06054718

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved Diagnosed Diagnostician : Wes Davis

: 08 Jan 2024

: 09 Jan 2024

Constructors Inc. - 603659 1815 Y Street Lincoln, NE US 68508

Contact: Loren Michael

Submitted By: Loren Michael

LorenM@constructorslincoln.com T: (402)434-2157

\* - 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)