



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
MUSKET TRANSPORT [69274]
 Machine Id
VOLVO 4716
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0948229	---	---
Sample Date	Client Info			21 Jun 2024	---	---
Machine Age	kms	Client Info		98702	---	---
Oil Age	kms	Client Info		0	---	---
Oil Changed	Client Info			Changed	---	---
Sample Status				NORMAL	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>6.0	<1.0	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	49	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	2	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)	>2	3	---	---
Aluminum	ppm	ASTM D5185(m)	>25	23	---	---
Lead	ppm	ASTM D5185(m)	>40	0	---	---
Copper	ppm	ASTM D5185(m)	>330	13	---	---
Tin	ppm	ASTM D5185(m)	>15	3	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

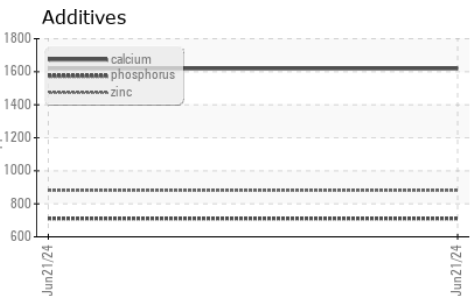
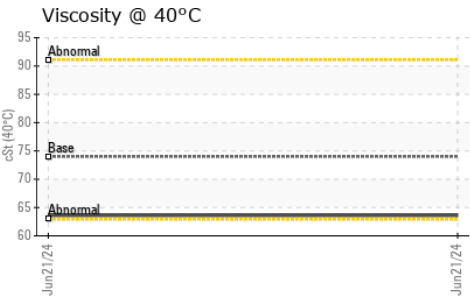
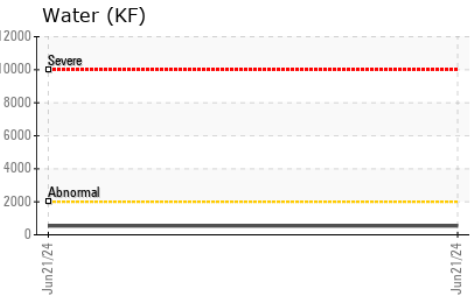
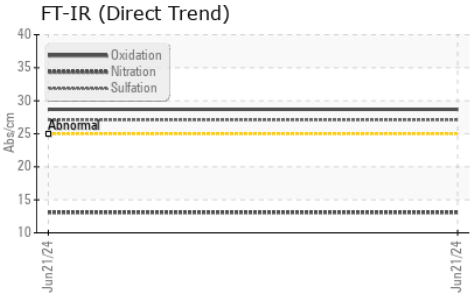
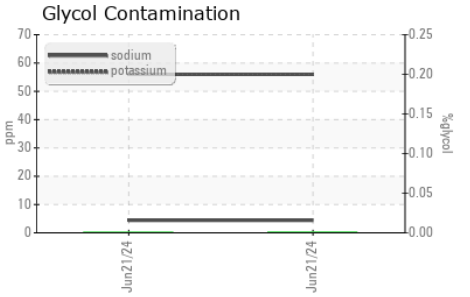
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	24	---	---
Barium	ppm	ASTM D5185(m)	1	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	1	101	---	---
Manganese	ppm	ASTM D5185(m)	1	4	---	---
Magnesium	ppm	ASTM D5185(m)	10	637	---	---
Calcium	ppm	ASTM D5185(m)	2942	1619	---	---
Phosphorus	ppm	ASTM D5185(m)	1102	711	---	---
Zinc	ppm	ASTM D5185(m)	1351	881	---	---
Sulfur	ppm	ASTM D5185(m)	3903	1904	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	28	---	---
Sodium	ppm	ASTM D5185(m)		4	---	---
Potassium	ppm	ASTM D5185(m)	>20	56	---	---
Water	%	ASTM D6304*	>0.2	0.053	---	---
ppm Water	ppm	ASTM D6304*	>2000	539	---	---
Glycol	%	ASTM D7922*		0.0	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	13.1	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	27.1	---	---



OIL ANALYSIS REPORT

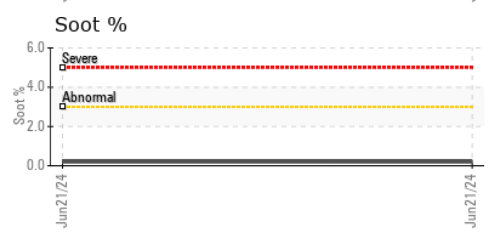
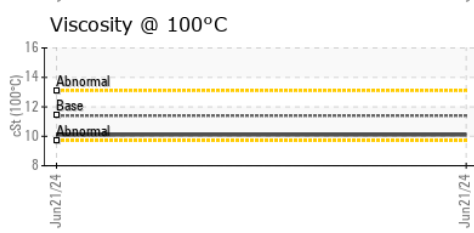
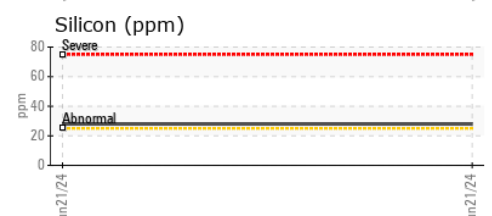
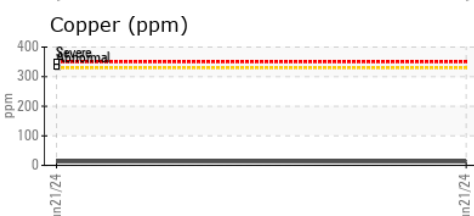
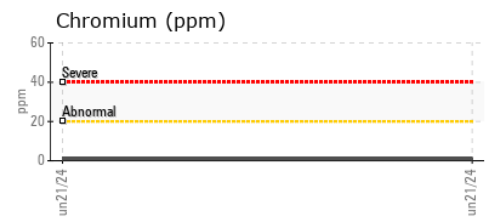
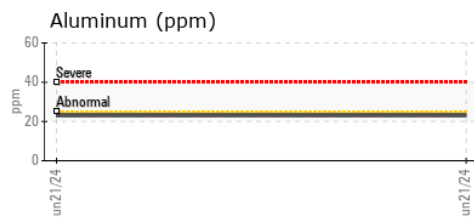
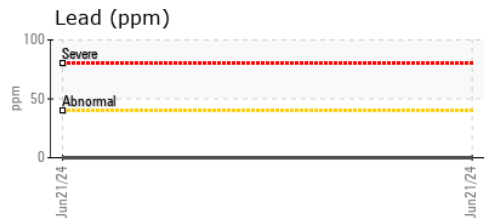
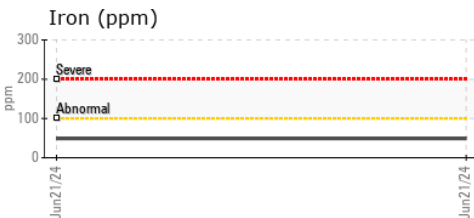


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	28.7	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	74.0	63.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	10.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	146	144	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0948229 **Received** : 26 Jun 2024 **415 EVANS AVENUE**
Lab Number : **02644089** **Tested** : 26 Jun 2024 **ETOBICOKE, ON**
Unique Number : 5801628 **Diagnosed** : 27 Jun 2024 - Kevin Marson **CA M8W 0B3**
Test Package : MOB 1 (Additional Tests: Glycol, KF, KV40, VI, Visual) **Contact: Service**
etobservice@visiontruckgroup.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.