



WEAR

NORMAL

CONTAMINATION

ABNORMAL

FLUID CONDITION

ABNORMAL

OIL ANALYSIS REPORT

Area

{UNASSIGNED}

Machine Id

CUMMINS 8464527

Component

Diesel Engine

Fluid

MOBIL DELVAC ELITE 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate amount of fuel present in the oil.

FLUID CONDITION

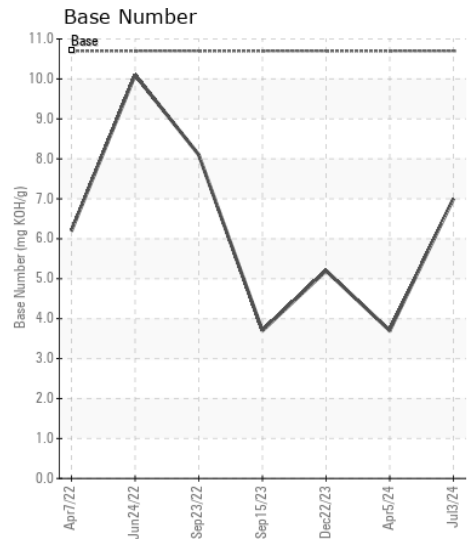
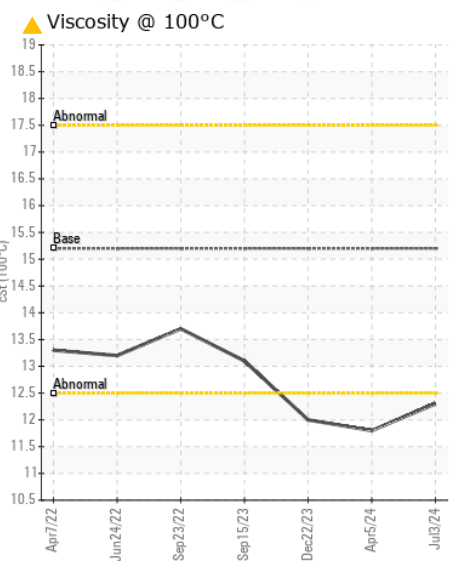
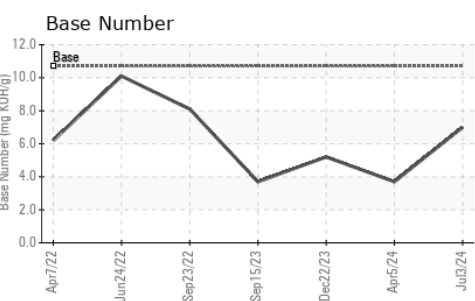
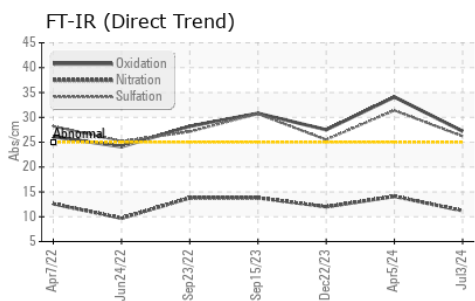
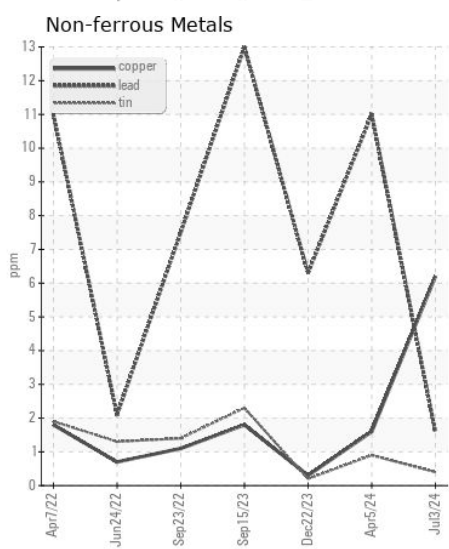
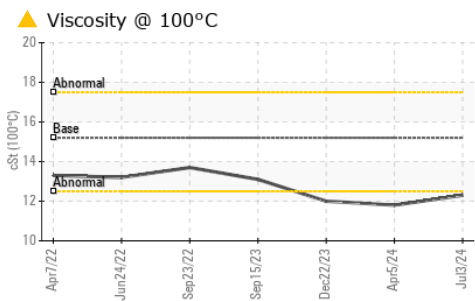
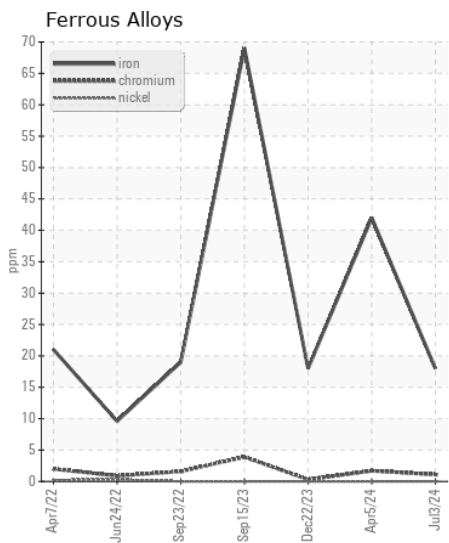
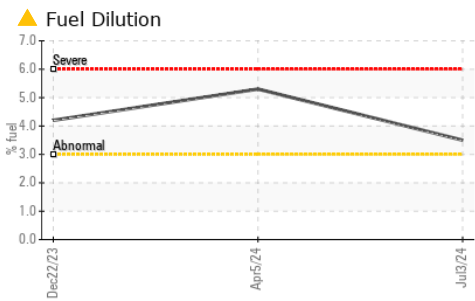
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0022011	RPL0018136	RPL0016932
Sample Date		Client Info		03 Jul 2024	05 Apr 2024	22 Dec 2023
Machine Age	mls	Client Info		253497	238032	223650
Oil Age	mls	Client Info		15501	0	15604
Filter Age	mls	Client Info		15501	0	15604
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>165	18	42	18
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	11	6
Lead	ppm	ASTM D5185m	>150	2	11	6
Copper	ppm	ASTM D5185m	>90	6	2	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>35	6	7	5
Potassium	ppm	ASTM D5185m	>20	8	20	11
Fuel	%	ASTM D3524	>3.0	▲ 3.5	▲ 5.3	▲ 4.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.7	1.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.2	14.1	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	31.4	25.5
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

Sodium	ppm	ASTM D5185m		5	1	2
Boron	ppm	ASTM D5185m		27	24	27
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	88	77
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m		496	598	579
Calcium	ppm	ASTM D5185m		1630	1580	1378
Phosphorus	ppm	ASTM D5185m		737	817	681
Zinc	ppm	ASTM D5185m		896	953	910
Sulfur	ppm	ASTM D5185m		2695	2961	2512
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.2	34.1	27.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.0	▲ 3.7	5.2
Visc @ 100°C	cSt	ASTM D445	15.2	▲ 12.3	▲ 11.8	▲ 12.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0022011 **Received** : 17 Jul 2024
Lab Number : 06238843 **Tested** : 18 Jul 2024
Unique Number : 11127677 **Diagnosed** : 18 Jul 2024 - Sean Felton
Test Package : FLEET (Additional Tests: KV40, PercentFuel)

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