FLEET LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KENWORTH 426142-SW4619
Component
Diesel Engine
Fluid
MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

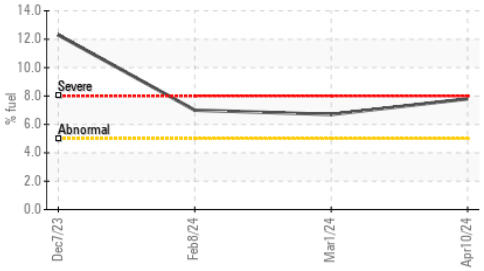
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

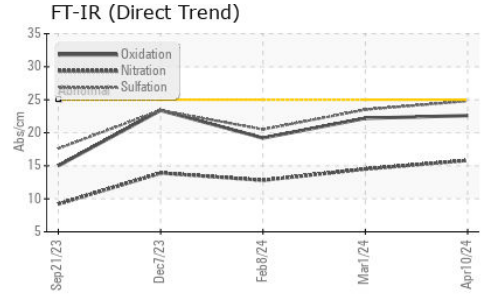
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0111296	GFL0095463	GFL0111337
Sample Date		Client Info		10 Apr 2024	01 Mar 2024	08 Feb 2024
Machine Age	hrs	Client Info		16375	16064	16375
Oil Age	hrs	Client Info		16375	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	34	17	13
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	7	4
Lead	ppm	ASTM D5185m	>40	2	1	<1
Copper	ppm	ASTM D5185m	>330	7	2	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	7	8	6
Potassium	ppm	ASTM D5185m	>20	4	8	2
Fuel	%	ASTM D3524	>5	▲ 7.8	▲ 6.7	▲ 7.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.5	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	15.8	14.5	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	23.5	20.5
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		9	1	6
Boron	ppm	ASTM D5185m		43	48	57
Barium	ppm	ASTM D5185m		0	1	1
Molybdenum	ppm	ASTM D5185m		122	131	113
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		645	646	630
Calcium	ppm	ASTM D5185m		1203	1243	1218
Phosphorus	ppm	ASTM D5185m		736	712	698
Zinc	ppm	ASTM D5185m		809	831	790
Sulfur	ppm	ASTM D5185m		3475	3202	3013
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	22.2	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.3	5.0	5.9
Visc @ 100°C	cSt	ASTM D445	15.2	12.8	▲ 12.1	▲ 11.8

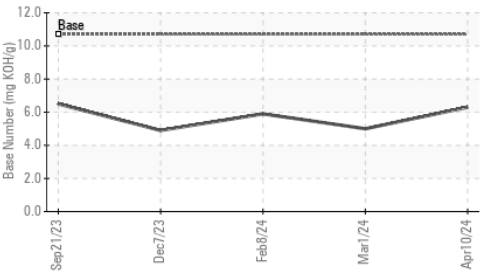
Fuel Dilution



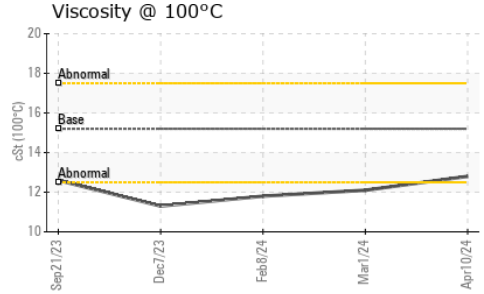
FT-IR (Direct Trend)



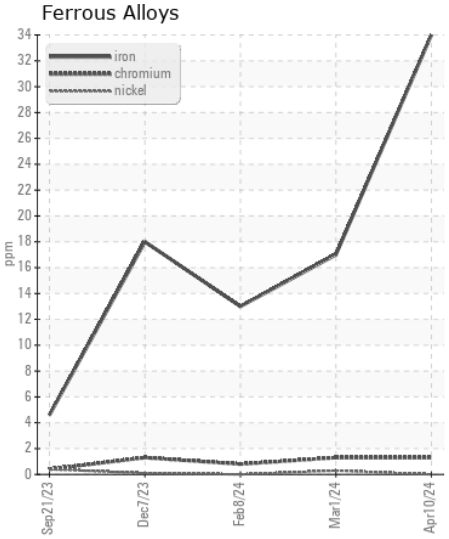
Base Number



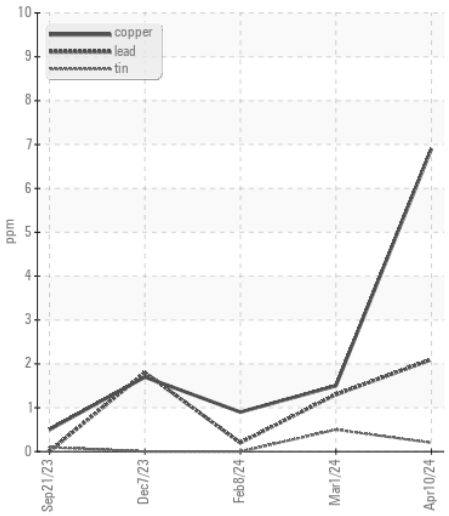
Viscosity @ 100°C



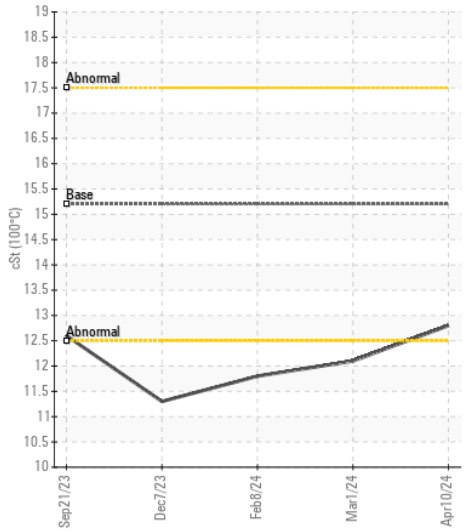
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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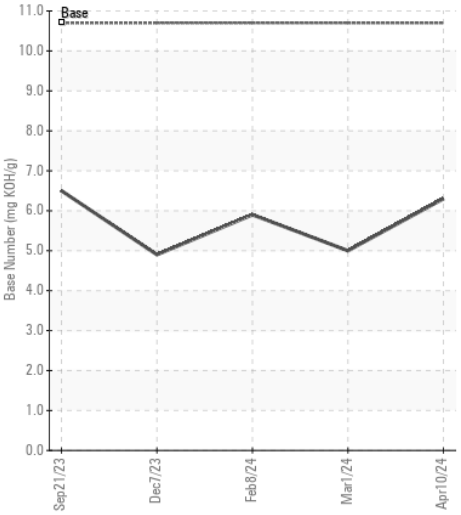

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111296
Lab Number : 06231211
Unique Number : 11114704
Test Package : FLEET (Additional Tests: PercentFuel)

Received : 09 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 11 Jul 2024 - Wes Davis

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)

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