IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL I4556
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (20 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

CONTAMINATION

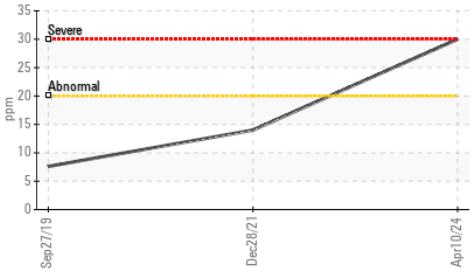
There is no indication of any contamination in the oil.

FLUID CONDITION

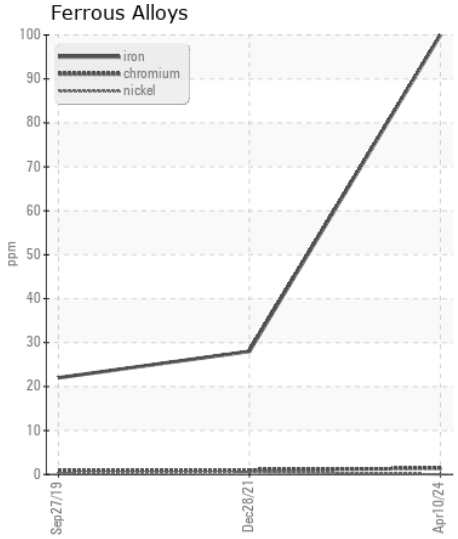
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035584	IL0007156	IL04829245
Sample Date		Client Info		10 Apr 2024	28 Dec 2021	27 Sep 2019
Machine Age	mls	Client Info		105312	59714	14420
Oil Age	mls	Client Info		0	9344	6000
Filter Age	mls	Client Info		0	9344	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>130	100	28	22
Chromium	ppm	ASTM D5185m	>10	1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ 30	14	8
Lead	ppm	ASTM D5185m	>20	0	0	2
Copper	ppm	ASTM D5185m	>125	2	<1	4
Tin	ppm	ASTM D5185m	>4	0	<1	<1
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	11	6	9
Potassium	ppm	ASTM D5185m	>20	35	25	24
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	14.0	9.9	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5	21.4	21.4
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		2	6	1
Boron	ppm	ASTM D5185m	0	36	56	41
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	99	3	38
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	0	648	720	458
Calcium	ppm	ASTM D5185m		1474	1317	1525
Phosphorus	ppm	ASTM D5185m		761	724	668
Zinc	ppm	ASTM D5185m		921	773	827
Sulfur	ppm	ASTM D5185m		2993	2720	2002
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.0	15.2	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	5.2	7.9	9.8
Visc @ 100°C	cSt	ASTM D445	14	13.5	13.6	13.3

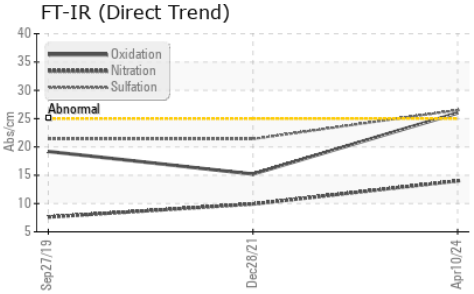
Aluminum (ppm)



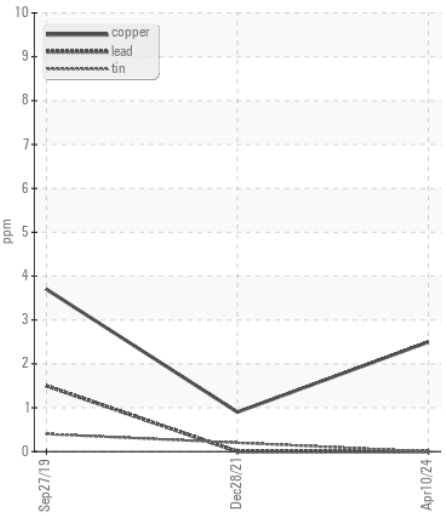
Ferrous Alloys



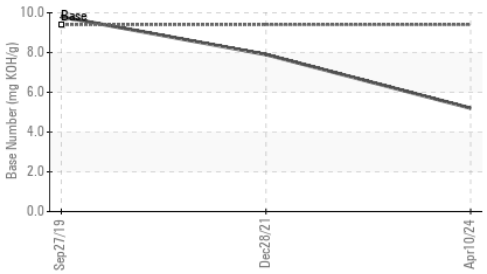
FT-IR (Direct Trend)



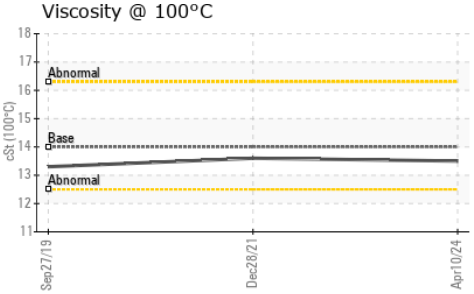
Non-ferrous Metals



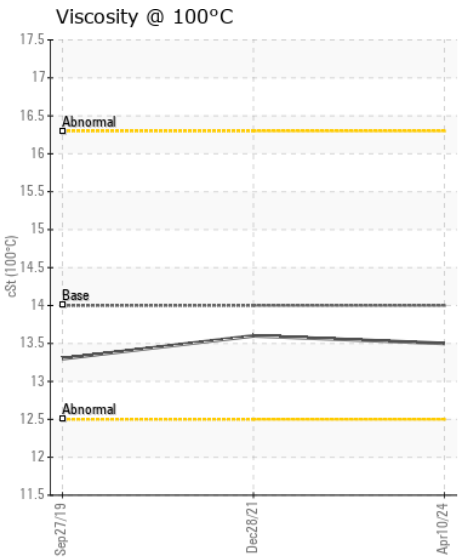
Base Number



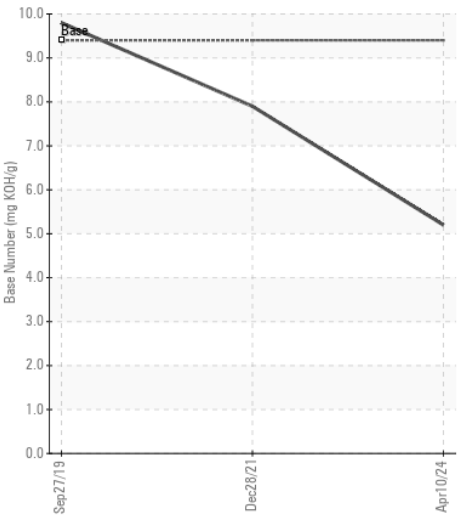
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035584
Lab Number : 06158792
Unique Number : 10994215
Test Package : FLEET

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Sean Felton

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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