OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FSP605 (S/N 1FVACXDTXCDBP7605)
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (22 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

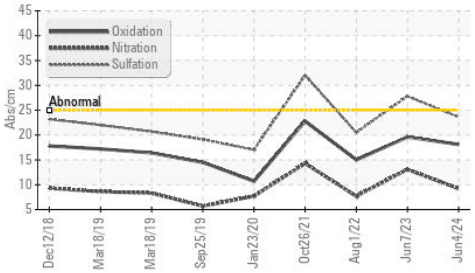
There is no indication of any contamination in the oil.

FLUID CONDITION

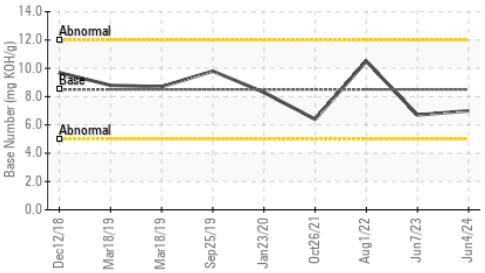
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0875917	WC0696543	WC0717511
Sample Date		Client Info		04 Jun 2024	07 Jun 2023	01 Aug 2022
Machine Age	mls	Client Info		312974	299691	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>80	37	57	19
Chromium	ppm	ASTM D5185m	>5	1	2	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	9	10	4
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	3	<1
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	6	8	3
Potassium	ppm	ASTM D5185m	>20	<1	4	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	1.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.2	13.1	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	27.8	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	>158	2	3	<1
Boron	ppm	ASTM D5185m	250	189	11	5
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	90	31	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	450	290	891
Calcium	ppm	ASTM D5185m	3000	1498	2130	1073
Phosphorus	ppm	ASTM D5185m	1150	1049	1004	1009
Zinc	ppm	ASTM D5185m	1350	1298	1229	1133
Sulfur	ppm	ASTM D5185m	4250	3713	3996	3144
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	19.6	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	6.7	10.5
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	14.9	14.6

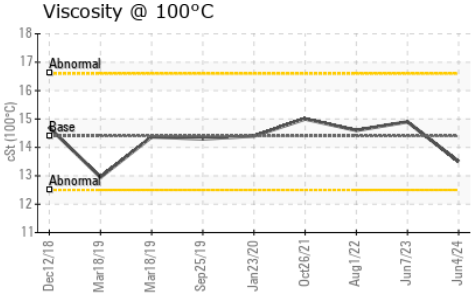
FT-IR (Direct Trend)



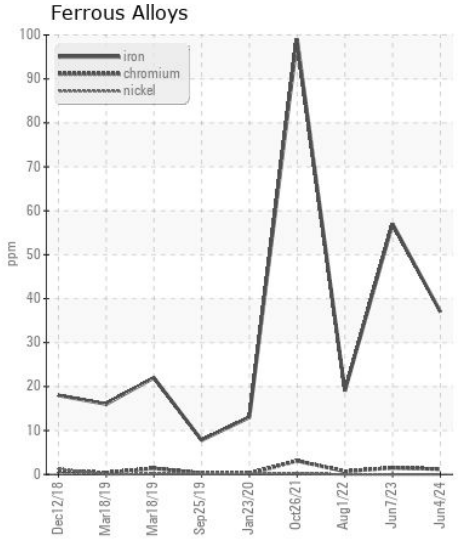
Base Number



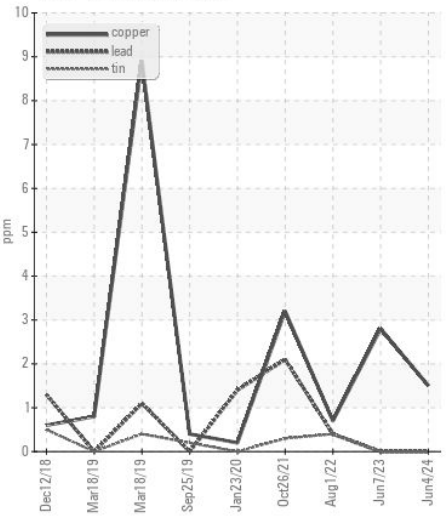
Viscosity @ 100°C



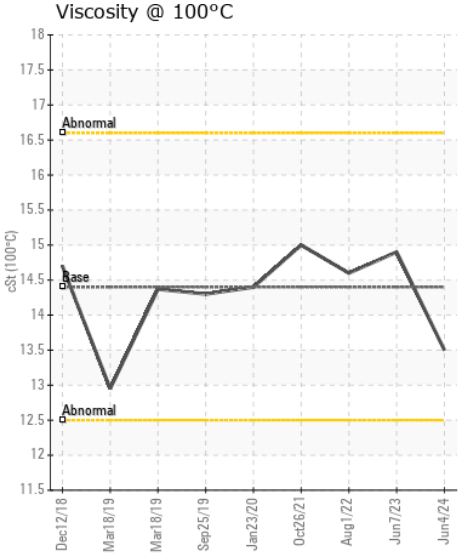
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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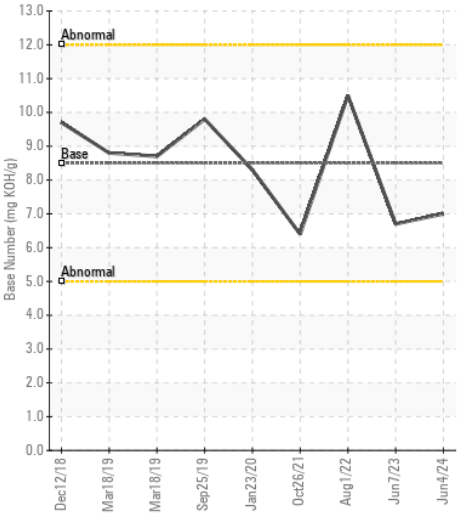

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0875917
Lab Number : 06211158
Unique Number : 11084022
Test Package : FLEET

Received : 14 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 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)

FRESHPOINT
8801 EXCHANGE DRVIE
ORLANDO, FL
US 32809
Contact: CRAIG EVANS
evans_craig@sbcglobal.net
T:
F: