

OIL ANALYSIS REPORT



Sample Rating Trend







Machine Id 1467 **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

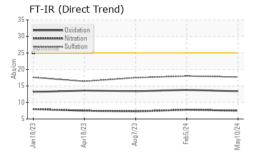
Fluid Condition

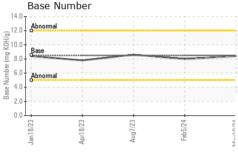
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

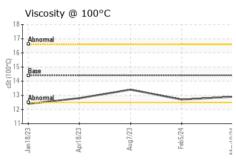
SAE 15W40 (G	AL)	Jan 2023	AprZ023	Aug2023 Feb2024	May2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0858155	WC0858132	WC0760066
Sample Date		Client Info		10 May 2024	05 Feb 2024	07 Aug 2023
Machine Age	hrs	Client Info		12847	12372	11873
Oil Age	hrs	Client Info		520	520	520
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	7	9	7
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	4	4
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	7	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	62	59	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	839	857	1026
Calcium	ppm	ASTM D5185m	3000	1054	1026	1227
Phosphorus	ppm	ASTM D5185m	1150	926	918	1107
Zinc	ppm	ASTM D5185m	1350	1123	1136	1380
Sulfur	ppm	ASTM D5185m	4250	3286	3318	4153
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m	>158	0	0	2
Potassium	ppm	ASTM D5185m	>20	2	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.8	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.0	17.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	13.8	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	8.0	8.6

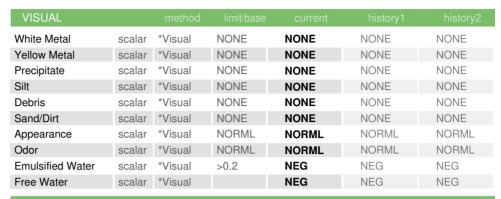


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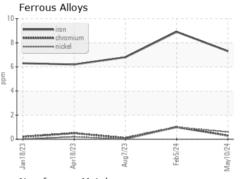


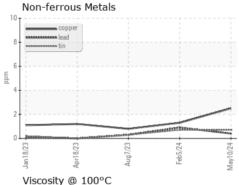


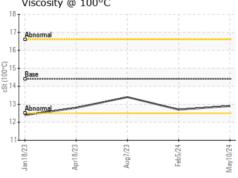


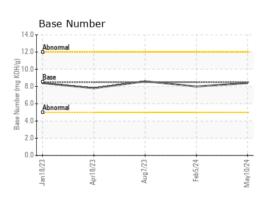


FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.7	13.4	













Certificate 12367

Laboratory Sample No.

: WC0858155 Lab Number : 06178054 Unique Number : 11029380

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 13 May 2024 **Tested** : 14 May 2024 Diagnosed

: 14 May 2024 - Wes Davis

Apple Valley Waste - Hometown Location 155 Airport Road

Selinsgrove, PA US 17870 Contact: Service Manager

Test Package : CONST (Additional Tests: TBN)

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