

Current

IL0036853

History1

17 Aug 2023

39887

0

0

IL05967531 ----

History2

Machine Id

8317559 Ipone **Diesel Engine** S1300 10W30 (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the it's useful service life, recomme at the next service interval to me

WEAR

Cylinder, crank, or cam shaft we

air filter, air induction system, and any component. The oil is near the end of	eample Hambel		0.10110		
	Sample Date		Client Info		18 Jun 2024
end schedule an oil change. Resample	Machine Age	mls	Client Info		84821
nonitor.	Oil Age	mls	Client Info		84821 0 0 N/A ABNORMAL 5 1 1 <1 <1 <1 1 5 1 7 5 1 7 6 0 0 NONE
	Filter Age	mls	Client Info		0
	Oil Changed		Client Info		N/A
	Filter Changed		Client Info		N/A
	Sample Status				ABNORMAL
	Iron	ppm	ASTM D5185m	>100	1 41
an and the stand	Chromium	ppm	ASTM D5185m	>20	5
vear is indicated.	Nickel	ppm	ASTM D5185m	>4	1
	Titanium	ppm	ASTM D5185m		<1
	Silver	ppm	ASTM D5185m	>3	<1
	Aluminum	ppm	ASTM D5185m	>20	17
	Lead	ppm	ASTM D5185m	>40	15
	Copper	ppm	ASTM D5185m	>330	17
	Tin	ppm	ASTM D5185m	>15	6
	Vanadium	ppm	ASTM D5185m		0
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE

Test

Sample Number

UOM

Method

Client Info

Limit/Abn

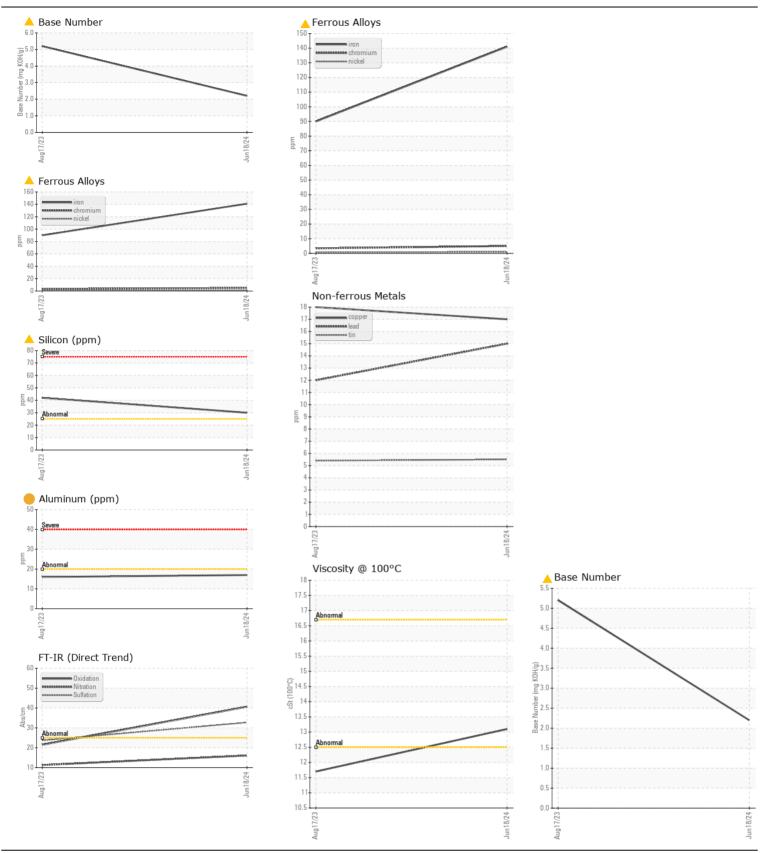
CONTAMINATION

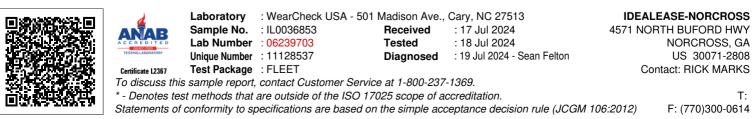
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The BN level is low.

Filter Age	mis	Client Into		U	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	1 41	90	
Chromium	ppm	ASTM D5185m	>20	5	3	
Nickel	ppm	ASTM D5185m	>4	1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	17	16	
Lead	ppm	ASTM D5185m	>40	15	12	
Copper	ppm	ASTM D5185m	>330	17	18	
Tin	ppm	ASTM D5185m	>15	6	5	
Vanadium	ppm	ASTM D5185m		0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
0				۰. ۰۰	40	
Silicon	ppm	ASTM D5185m	>25	▲ 30	42	
Potassium	ppm	ASTM D5185m		53	53	
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	0	NEG	NEG	
Soot %	%	*ASTM D7844		0.8	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	16.1	11.3	
Sulfation	Abs/.1mm	*ASTM D7415		32.7	23.7	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		5	4	
Boron	ppm	ASTM D5185m		23	20	
Barium	ppm	ASTM D5185m		2	0	
Molybdenum	ppm	ASTM D5185m		56	64	
Manganese	ppm	ASTM D5185m		6	6	
Magnesium	ppm	ASTM D5185m		444	456	
Calcium	ppm	ASTM D5185m		1682	1761	
Phosphorus	ppm	ASTM D5185m		897	938	
Zinc	ppm	ASTM D5185m		1109	1238	
Sulfur	ppm	ASTM D5185m		2699	2748	
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.6	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896		<u> </u>	5.2	
Visc @ 100°C	cSt	ASTM D445		13.1	11.7	
	500					





Contact/Location: RICK MARKS - IDENORGA Page 2 of 2