

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id

IMM230 (S/N S81114082K1)

Hydraulic System Fluid MOBIL DTE 10 EXCEL 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

🛑 Wear

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

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887706	WC0409229	WCI2331346
Sample Date		Client Info		07 Jun 2024	27 May 2020	05 Aug 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<mark> </mark> 21	11	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	3	3	6
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		13	10	10
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Calcium	ppm	ASTM D5185m		116	103	94
Phosphorus	ppm	ASTM D5185m		457	394	373
Zinc	ppm	ASTM D5185m		13	3	13
Sulfur	ppm	ASTM D5185m		1843	1482	2150
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	0	<1
Sodium	ppm	ASTM D5185m		1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000			▲ 14122
Particles >6µm		ASTM D7647	>1300			1453
Particles >14µm		ASTM D7647	>160			137
Particles >21µm		ASTM D7647	>40			39
Particles >38um		ASTM D7647	>10			2

ASTM D7647 >3

ISO 4406 (c) >19/17/14

Particles >71µm

Oil Cleanliness

0

▲ 21/18/14



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Ferrous Alloys		
20 iron 20 chromium		
15- E	/	
10-		
Aug5/18 -	May27/20 -	Jun7/24 .
Acid Number		





FLUID DEGRADATION		method	limit/base	current	history i	nistory2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.10	0.085	0.121
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	A MODER	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	VLITE
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	44.7	45.4	45.92
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





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Contact/Location: BILLY CARDER - SUMSCO

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