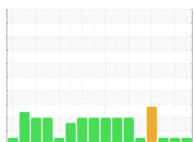


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



MK-120

B60380 - PALLET INVERTER DOUBLE STACK (S/N R-16140)

Hydraulic Power Pack

HYDRAULIC OIL FG ISO 32 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0880583	WC0872430	WC0820526
Sample Date		Client Info		12 Jul 2024	07 Jan 2024	13 Jul 2023
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				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	0	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	29	35	31
Barium	ppm	ASTM D5185m	5	0	3	1
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	<1	0	<1
Calcium	ppm	ASTM D5185m	12	14	20	19
Phosphorus	ppm	ASTM D5185m	400	362	440	386
Zinc	ppm	ASTM D5185m	12	4	0	3
Sulfur	ppm	ASTM D5185m	650	570	651	638
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	6503	7255	2737
Particles >6µm		ASTM D7647	>2500	467	1796	440
Particles >14µm		ASTM D7647	>320	24	115	53
·		ASTM D7647	>80	5	20	15
Particles >21µm			200			
Particles >21μm Particles >38μm		ASTM D7647	>20	0	0	2
Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>20 >4		0	0
Particles >21μm Particles >38μm		ASTM D7647	>20	0	0	

Acid Number (AN)

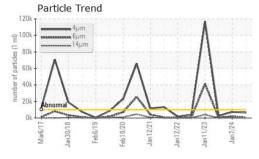
0.53

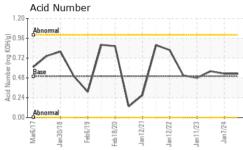
mg KOH/g ASTM D8045 0.50

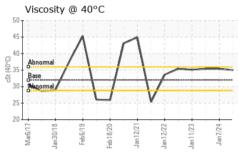
Contact/Location: RYAN LOWE - HORAUS

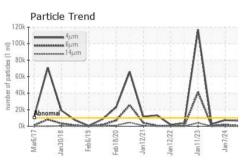


OIL ANALYSIS REPORT





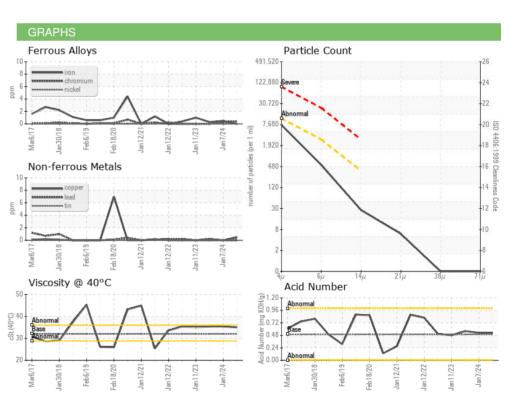




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	35.0	35.4	35.4
SAMPLE IMAGES		method	limit/base	current	historv1	historv2

Color **Bottom**









Certificate 12367

Laboratory Sample No.

: WC0880583 Lab Number : 06240292 Unique Number : 11129126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024 **Tested** : 19 Jul 2024

Diagnosed : 20 Jul 2024 - Don Baldridge

Test Package : IND 2 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)

HORMEL FOODS - AUSTIN

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Contact: RYAN LOWE rslowe@hormel.com T: (507)437-5674 F: (507)437-9805